



Product Information Packet

PFC EQUIPMENT

CEM4316T

75HP,1780RPM,3PH,60HZ,365TC,1482M,TEFC

Part Detail							
Revision:	A	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	A36WG4076	CD Diagram:	416820-002	Mfg Plant:	
Mech. Spec:		Layout:	617428-019	Poles:	04	Created Date:	05-16-2019
Base:		Eff. Date:	08-07-2019	Leads:	3#4,6#6	Y	

Specs			
Catalog Number:	CEM4316T	Feedback Device:	NO FEEDBACK
Enclosure:	TEFC	Heater Indicator:	No Heater
Frame:	365TC	Insulation Class:	F
Frame Material:	Iron	Inverter Code:	Inverter Ready
Output @ Frequency:	75.000 HP @ 60 HZ	IP Rating:	NONE
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	KVA Code:	G
Voltage @ Frequency:	230.0 V @ 60 HZ	Lifting Lugs:	No Lifting Lugs
	460.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	3 @ 4 AWG
XP Class and Group:	None	Motor Type:	A36070M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA EEV	Power Factor:	86
	CCSA US	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	P-Base
Base Indicator:	Rigid	Shaft Ground Indicator:	No Shaft Grounding
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Rotation:	Reversible
Current @ Voltage:	172.000 A @ 230.0 V	Shaft Slinger Indicator:	No Slinger
	188.000 A @ 208.0 V	Speed Code:	Single Speed
	86.000 A @ 460.0 V	Motor Standards:	NEMA

Design Code:	B	Starting Method:	Direct on line
Drip Cover:	No Drip Cover	Thermal Device - Bearing:	None
Duty Rating:	CONT	Thermal Device - Winding:	None

Nameplate NP2383LUA

CAT.NO.	CEM4316T	SPEC NO.	A36-1117-4076						
HP	75	AMPS	172/86	VOLTS	230/460	DESIGN	B		
FRAME	365TC	RPM	1780	HZ	60	AMB	40	SF	1.15
DRIVE END BEARING	65BC03J30X	PHASE	3	DUTY	CONT	INSUL.CLASS	F		
OPP D.E. BEARING	65BC03J30X	TYPE	P	ENCL	TEFC	CODE	G		
SER.NO.		POWER FACTOR	86	NEMA-NOM-EFFICIENCY	95.4				
	SUIT FOR 208V @ 188 AMPS	MAX CORR KVAR	15.8	GUARANTEED EFFICIENCY	94.5				
NEMA NOM/CSA QUOTED EFF									
USABLE AT	50HZ 60HP 190/380V 168/84A 1.0SF	MOTOR WEIGHT							

Nameplate NP2496L

MOBIL POLYREX EM

Parts List		
Part Number	Description	Quantity
SA369702	SA A36-1117-4076	1.000 EA
RA359286	RA A36-1117-4076	1.000 EA
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 EA
000692000VD	LABEL WARNING	1.000 EA
NP2383LUA	SS SUPER-E CSA-C US CSA-EEV CC (LASER)	1.000 EA
NP2496L	MOTOR LUBE NAMEPLATE	1.000 EA
421948032	LABEL, MYLAR	1.000 EA
004824015A	GREASE POLYREX EM	0.544 LB
032018008AK	HHCS 1/4-20X1 PLATED	4.000 EA
032018012DK	HHCS 1/2-13X1-1/2 PLTD.	4.000 EA
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 EA
034180012DA	KEY 1X4X1/4X1-1/2 L	1.000 EA
034530052AB	P/NIP 1/8X6-1/2 GALV.	1.000 EA
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 EA
034690001AB	1/8" NPT SQHDPLG	1.000 EA
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 EA
078559001A	+FANCV - 360	1.000 EA
085922073B	BRKT 360 085922072WCC KB	1.000 EA
410700004F	WSHR	1.000 EA
415072001B	CLAMP	1.000 EA
415096002A	CPLG 1/8 HEX TYPE	1.000 EA
702676001C	FAN 360	1.000 EA
032018012DK	HHCS 1/2-13X1-1/2 PLTD.	4.000 EA
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 EA

Parts List (continued)		
Part Number	Description	Quantity
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 EA
034690001AB	1/8" NPT SQHDPLG	1.000 EA
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 EA
085922167A	STD C-FACE BRKT B. E. 360 TEFC 6313 BRG	1.000 EA
032018005AK	HHCS 1/4-20X5/8 PLATED	4.000 EA
032018008CK	HHCS 3/8-16X1L PLATED	4.000 EA
033512004LB	HHTTS 1/4-20X1/2 PLTD.	1.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
043292000AJ	GASK 320-400	1.000 EA
077176000L	C/BOX, 360-400	1.000 EA
077176001A	CBOXC, PAINTED 360-400	1.000 EA
402731001A	GASK 360-440	1.000 EA
406099000A	PLUG - FAN COVER 320-440	1.000 EA
415000103D	T/LUG #4AWG-1/0AWG W/HOLE FOR .250 BOLT	1.000 EA
418150003A	GREASE FITTING CAP	1.000 EA
418150003A	GREASE FITTING CAP	1.000 EA
MG1025Y17	WILKOFASST, 789.701, SUPER E PEARL GOLD	0.250 GA
033775004EA	DRSCR #6-1/4 304 S.S.	6.000 EA
034180034HA	KEY 5/8X5/8X4-1/4 L	1.000 EA
032509020C	CARRIAGE BOLT - 360	3.000 EA
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 EA
HW1000A32	5/16 FL WASHER WIDE,ID=.344,OD=1.125	3.000 EA

AC Induction Motor Performance Data

Record # 76068 - Typical performance - not guaranteed values

Winding: A36WG4076-R001	Type: A3670M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	75			Full Load Torque	220 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	172/86			Breakdown Torque	543 LB-FT
R.P.M.	1780			Pull-up Torque	361 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	429 LB-FT
NEMA Design Code	B	KVA Code	G	Starting Current	553 A
Service Factor (S.F.)	1.15			No-load Current	27.6 A
NEMA Nom. Eff.	95.4	Power Factor	86	Line-line Res. @ 25°C	0.088938 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	58°C
S.F. Amps				Temp. Rise @ S.F. Load	73°C
				Locked-rotor Power Factor	32.1

Load Characteristics 460 V, 60 Hz, 75 HP

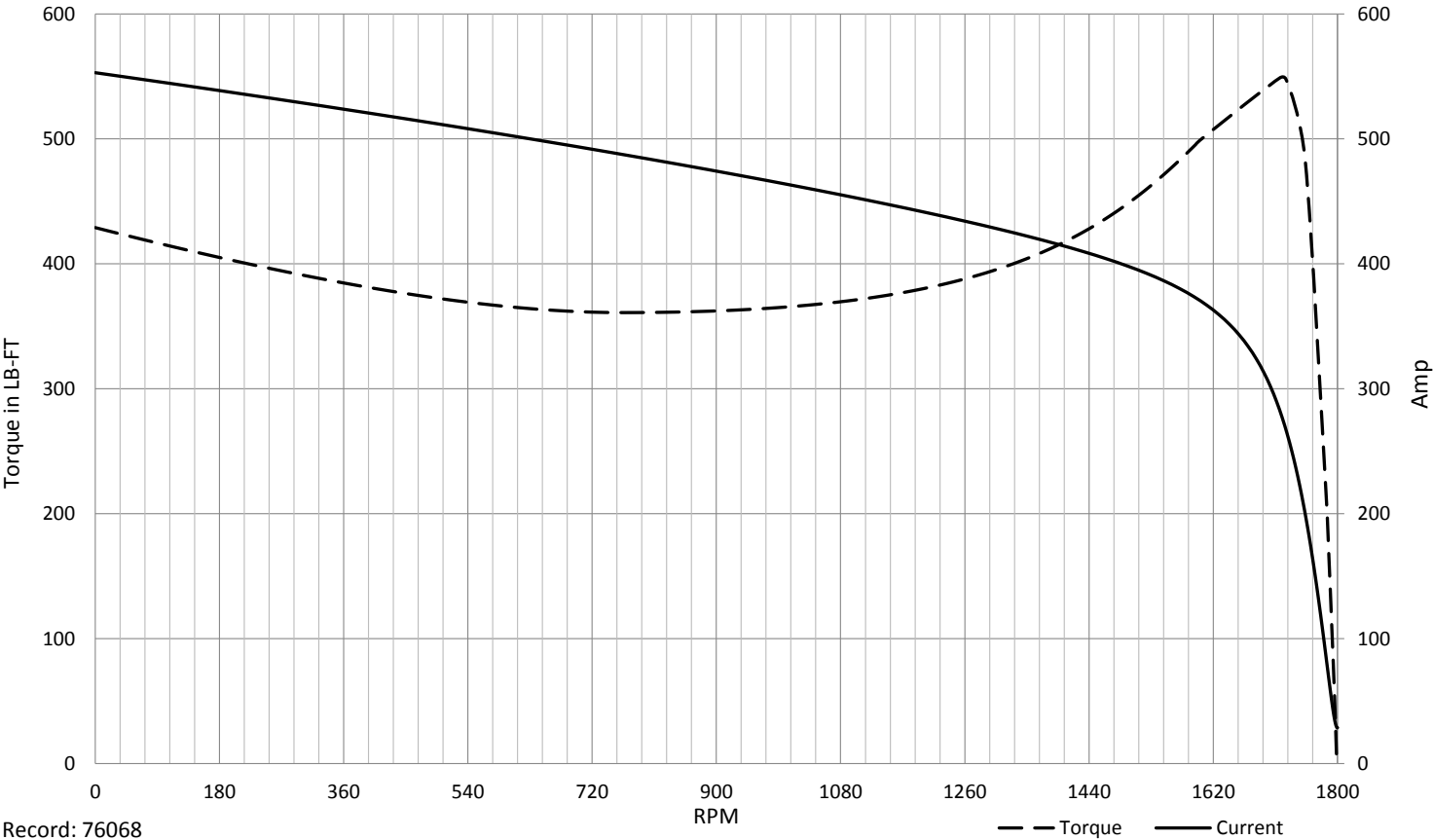
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	54	75	83	86	86	86	86
Efficiency	93.7	95.7	95.8	95.4	94.8	93.9	95
Speed	1795.8	1791.8	1787.7	1783.1	1778.3	1772.5	1780
Line amperes	33.9	48.4	65.9	85.6	107	131	98.4

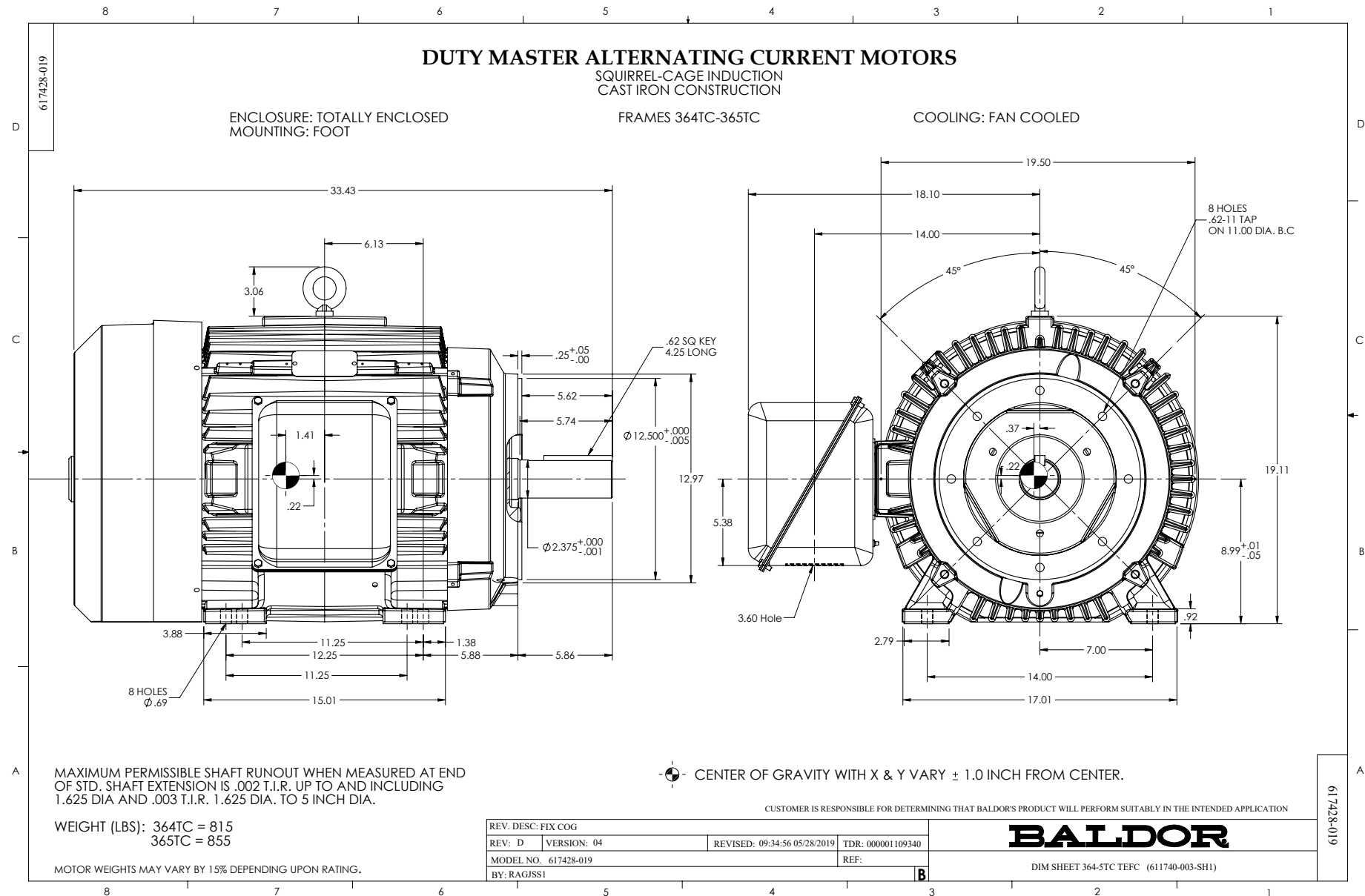
SPEED TORQUE / SPEED CURRENT CURVES



A36WG4076

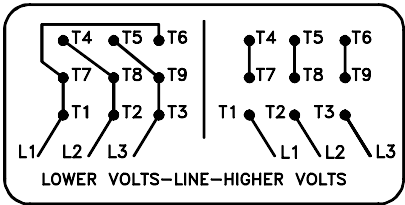
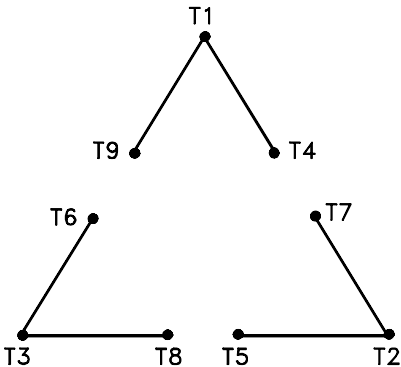
75HP 460V 60HZ





416820-002

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD DELTA-CONNECTED



(N.P. 1575-B)

416820-002

REV. DESC: LOADED TO BUS, C/R 335225			BALDOR	
REV. LTR: -	VERSION: 00	TDR: 000000538207		
FILE: \MGA\00000\661		REVISED: 10: 47: 51 04/30/2010	CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED	
MTL: -		BY: RAGRA	SH 1 of 1	

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